

**Holding support for vertebra - is of tubular form with an external screw thread and is made of titanium**

Patent Number: DE4302397  
Publication date: 1993-07-29  
Inventor(s): OJIMA SATOSHI (JP); MATSUZAKI HIROMI (JP)  
Applicant(s):: ASAHI OPTICAL CO LTD (JP)  
Requested Patent: ☐ DE4302397  
Application Number: DE19934302397 19930128  
Priority Number(s): JP19920038566 19920128  
IPC Classification: A61B17/56 ; A61F2/44 ; A61L27/00  
EC Classification: A61F2/44F, A61L27/06, A61L31/02B  
Equivalents: ☐ JP5269160

---

**Abstract**

---

An artificial spacer is used to hold two adjacent vertebrae at the correct distance from each other after the cartilage disc, which normally holds the vertebrae in position, has been removed. The spacer (501) is of tubular form and is screwed into the two vertebrae (311) to hold them at the required distance from each other.

The spacer is made from a material of the necessary strength and stiffness such as titanium. The spacer has radial holes in its wall and these holes extend from the inner surface to the outer surface.

ADVANTAGE - The element holds the vertebrae in a stable position and can resist both tensile and compressive forces.

---

Data supplied from the esp@cenet database - I2